

Influence of Anion Hydration Energy  
on the Adsorption and the Inhibitory  
Action of Additives in Cadmium Electro-  
deposition, by Yu. M. Loshkarev.

RUSSIAN, per, Dok Ak Nauk SSSR,  
Phys Chem., Vol 199, No 3, July 1971,  
pp 650-653.

CB

Feb 72

Complexes of Tin Tetrachloride and  
Their Role in Reactions Involving  
Rupture of the Acetal Bond, by  
I. S. Morosova.

RUSSIAN, per, Dok Ak Nauk SSSR,  
Phys Chem., Vol 199, No 3, July 1971,  
pp 654-656.

CB

Feb 72

Investigation of the Molecular  
Mechanism of the Mutagenic Effect of  
Nitrosoalkylureas, by I. M. Serebryanyi.  
RUSSIAN, per, Dok Ak Nauk SSSR,  
Phys Chem., Vol 199, No 3, July 1971,  
pp 657-660.

CB

Feb 72

Kinetic of the Swelling of Polymers  
Under Pressure, by L. I. Surdutovich.  
RUSSIAN, per, Dok Ak Nauk SSSR,  
Phys Chem., Vol 199, No 3, July 1971,  
pp 661-664.

CB

Feb 72

Acid-Base Properties and Thermodynamic  
Scale of the Trans Influence in the  
Chemistry of Complex Compounds of Pt(IV),  
by M. G. Felin.

RUSSIAN, per, Dok Ak Nauk SSSR,  
Phys Chem., Vol 199, No 3, July 1971,  
pp 665-666.

CB

Feb 72

Strontium-90 Content of Some Black Sea  
Organisms in 1965-1968, by  
V. P. Parachevskii.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biophys.,  
Vol 199, No 3, July 1971, pp 705-707.  
CB

July 72

[REDACTED]

Use of Methylglucoside for the Purification of Amylase and Some of the Properties of the Purified Enzyme, by  
D. M. Belen'kii.

RUSSIAN, per, Dok Ak Nauk SSSR, Biochem.,  
Vol 199, No 3, July 1971, pp 708-711.  
CB

Mar 72

Effect of Aminoglycosidic Antibiotics  
and of Spermidine on the Stability of  
Association of Ribosomal Subunits, by  
E. B. Lishnevskaya.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem.,  
Vol 199, No 3, July 1971, pp 712-714.

CB

Mar 72

Formation of a Complex of Carnosine  
With ATF, by E. V. Petushkova.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem.,  
Vol 199, No 3, July 1971, pp 715-718.  
CB

Mar 72

Specificity of Action of Rabbit-Liver  
Neutral Oligoglucosidases, by  
N. A. Ushakova.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem.,  
Vol 199, No 3, July 1971, pp 719-721.  
GB

Mar 72

Ultrastructure of Mycorrhiza of the  
Garden Pea (*Pisum sativum L.*), by  
M. A. Protzenko.  
RUSSIAN, per, Dok Ak Nauk SSSR, Bot Sci.,  
Vol 199, No 3, July 1971, pp 722-723.  
CB

June 72

Changes in the Photosynthetic Activity  
of Millet During Selection in the  
Southeast USSR, by V. A. Kumakov.  
RUSSIAN, per, Dok Ak Nauk SSSR, Bot Sci.,  
Vol 199, No 3, July 1971, pp 724-726.  
CB

June 72

Effect of Heat Hardening on the  
Extractability and Heat Resistance of  
Water-Soluble Proteins From Wheat  
Leaves, by M. M. Shcherbakova.  
RUSSIAN, per, Dok Ak Nauk SSSR. Bot Sci.,  
Vol 199, No 3, July 1971, pp 727-729.  
CB

June 72

Some Characteristics of Respiratory  
Regulation in Natives of High Mountain  
Regions, by I. S. Breslav.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci.,  
Vol 199, No 3, July 1971, pp 730-732.  
CB

Mar 72

Postsynaptic Potentials in Adjacent  
Synapses for Some Multiply Innervated  
(Tonic) Fibers in Eye Muscles, by  
D. P. Matyushkin.  
RUSSIAN, par, Dok Ak Nauk SSSR, Biol Sci.,  
Vol 199, No 3, July 1971, pp 733-736.  
CB

Mar 72

[REDACTED]

On the Completeness of Operations and Operating  
Algorithms, by V. A. Neponmyashchiy, 6 pp.  
RUSSIAN, per, Doklady Akademii Nauk SSSR,  
Matematika, Moscow, Vol 199, No 4, 1971, pp 780-  
782.  
JPRS 54460

Nov 71

Possible Description of a Thermodynamic  
Nonequilibrium State in a Crystal, by  
M. R. Korotkina.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 4, August 1971, pp 792-794.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Structure of the Perturbed Region  
in Front of a Cylinder in a Super-  
sonic Rarefield Gas Flow, by

E. V. Lysenko.

RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 4, August 1971, pp 795-798.

Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Nonlinear Interaction of an Electron Beam  
With a Plasma, by M. D. Gabovich.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 4, August 1971, pp 799-801.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Electrical Structure of the Surface of  
Semiconductors and Boundary Layers, by  
G. I. Distler.

RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 4, August 1971, pp 802-805.

Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Calculation of an Ion-Carrier Accelerometer,  
by N. S. Lidorenko.

RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 4, August 1971, pp 806-809.

Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Electroplastic Deformation of Metal Before  
Brittle Fracture, by Vikt. I. Spitsyn.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 4, August 1971, pp 810-813.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Role of Vibrational Excitation of Molecules  
in Photochemical Reactions of Polyethylene,  
by B. I. Stepanov.

RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 4, August 1971, pp 814-816.

Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Experimental Investigation of Current  
Distribution in Composite Supercon-  
ductors, by V. V. Sychev.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 4, August 1971, pp 817-820.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Effect of Annealing on the Defect Structure of Neutron-Irradiated Crystals of LiF,  
by V. I. Zefirova.

RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 4, August 1971, pp 821-823.  
Am Inst of Phys  
Vol 16, No 8, February

Mar 72

Recognition of the Physiological Activity  
of Chemical Compounds on a Perceptron  
With a Random Adaptation of Structure,  
by S. A. Hiller.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys.  
Chem., Vol 199, No 4, August 1971,  
pp 851-853.

CB

Mar 72

Spherulite Formation During Isothermal  
Crystallization of Isotactic Propylene  
Solutions, by A. V. Kenarov.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 4, August 1971,  
pp 854-856.

CB

Mar 72

Use of an Adiabatic Calorimeter for  
Determining Termination Constants in  
the Polymerization of Solid Formaldehyde  
in a Radiation Field and in Postpoly-  
merization, by D. P. Kiryukhin.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 4, August 1971,  
pp 857-860.

CB

Mar 72

Mechanisms of the Assorption of Silver  
Ions by Activated Charcoals, by  
L. A. Kul'skii.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 4, August 1971,  
pp 861-864.

GB

Mar 72

Possibility of the Existence of the  $\text{CF}_6^{2-}$   
Ion, by E. L. Rozenberg.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 4, August 1971,  
pp 865-868.

CB

Mar 72

Etch Pits and Dehydration Figures in  
the Hexahydrate of Sodium Tripoly-  
phosphate, by V. A. Sotnikova-Yuzhik.  
RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 4, August 1971,  
pp 869-871.

CB

Mar 72

Oxidative Isomerization of Higher  
Olefins in the Presence of Complex  
Compounds of Rhodium, by Z. K. Maizus.  
RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 4, August 1971,  
pp 872-875.

CB

Mar 72

Temperature-Jump Method in Electro-  
chemical Investigations, by  
A. A. Chernenko.  
RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 4, August 1971,  
pp 876-879.  
CB

Mar 72

Axial Thermal Expansion of Solid  
Solutions in the  $ZrO_2$ - $HfO_2$  System,  
by A. M. Gavrish.

RUSSIAN, per, Dok Ak Nauk SSSR,  
Chem Tech., Vol 199, No 4, 1971,  
pp 880-882.

CB

June 72

A Study of the Crystallization Structure-Formation During the Hardening of  
Portland Cement and Cement-Sand Mixtures  
Using Scanning Electron Microscopy, by  
I. L. Gorelova.

RUSSIAN, per, Dok Ak Nauk SSSR,  
Chem Tech., Vol 199, No 4, 1971,  
pp 883-885.

CB

June 72

Calculation of the Dynamics of a System  
Described by Cell Models and Representing  
Nonisothermal Reactions of Arbitrary  
Complexity, by V. V. Kafarov.  
RUSSIAN, per, Dok Ak Nauk SSSR,  
Chem Tech., Vol 199, No 4, 1971,  
pp 886-889.

CB

June 72

Adsorption Lowering of Strength During  
the Grinding of Anthracite and  
Bituminous Coal Under High Temperature  
Conditions, by K. Ya. Polferov.  
RUSSIAN, per, Dok Ak Nauk SSSR,  
Chem Tekh., Vol 199, No 4, 1971,  
pp 890-892.  
CB

June 72

"Living" Polymers by Polymerization of  
Butadiene in the Presence of -  
Crotylpalladium Chloride, by  
G. M. Khvoestik.

RUSSIAN, per, Dok Ak Nauk SSSR,  
Chem Tech., Vol 199, No 4, 1971,  
pp 893-895.

CB

June 72

Modifying Effect of Cystamine on Some  
Mutagenic Influences on the Human  
Organism, by A. D. Smirnov.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci.,  
Vol 199, No 4, August 1971, pp 937-939.  
CB

Mar 72

Application of Radioactive Carbon C<sup>14</sup>  
to Determine Efficiency of Energy Trans-  
fer in a Food Chain: Glucose, by  
Eva Fischer.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci.,  
Vol 199, No 4, August 1971, pp 940-943.  
CB

Mar 72

Reproduction of Tobacco Mosaic Virus in  
Isolated Mitochondria of Rat Liver, by  
V. M. Zhdanov.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci.,  
Vol 199, No 4, August 1971, pp 944-947.  
CB

Mar 72

Investigations on the Effects of  
Ribonuclease on Antibody Synthesis  
During Secondary in Vitro and in  
Vivo Immune Responses, by  
I. V. Konstantinova.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci.,  
Vol 199, No 4, August 1971, pp 948-951.  
CB

Mar 72

Photosensitized Evolution of Oxygen in  
Aqueous Solutions of n-Benzoquinone,  
by A. A. Krasnovskii.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biophys.,  
Vol 199, No 4, August 1971,  
pp 952-955.

CB

July 72

Difference in the Concentration Factors  
For Sr<sup>90</sup> From Radioactive Fallout and  
Natural Sr in Black Sea Organisms,  
by I. M. Sokolova.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biophys.,  
Vol 199, No 4, August 1971,  
pp 956-958.  
CB

July 72

Multiple Molecular Forms of Liver  
Dextrin-4-Glycosyltransferase, by  
A. I. Voskoboev.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem.,  
Vol 199, No 4, August 1971, pp 959-961.  
CB

Mar 72

Specificity of a Series of Glucosylation Enzymes With Regard to the Structure of the Hexose Residue of Uridine-Diphosphate-Glucose, by N. D. Gabrielyan.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem.,  
Vol 199, No 4, August 1971, pp 962-964.  
CB

Mar 72

Quantitative Relationships in Interactions  
of Associates of Chlorophyll With Pro-  
teins, by V. D. Semichaevskii.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem.,  
Vol 199, No 4, August 1971, pp 965-967.  
CB

Mar 72

Inclusion of Exogenous Sucrose Into  
Free Amino-Acids Metabolism in Winter  
Cereals Under Low Temperatures, by  
V. I. Babenko.

RUSSIAN, per, Dok Ak Nauk SSSR. Bot Sci.,  
Vol 199, No 4, August 1971, pp 968-971.  
CB

June 72

An Immunochemical Study of the Proteins  
of Maize Root Growth Zones, by  
E. E. Khavkin.  
RUSSIAN, per, Dok Ak Nauk SSSR, Bot Sci.,  
Vol 199, No 4, August 1971, pp 972-975.  
CB

June 72

Influence of Limitation of Mobility on  
the Content and Nucleotide Composition  
of RNA and on the Protein Content in  
Motor Neurons of the Anterior Horns of  
the Spinal Cord, by A. V. Gorbunova.  
RUSSIAN, per, Dok Nauk SSSR, Biol Sci.,  
Vol 199, No 4, August 1971, pp 976-979.  
CB

Mar 72

Ischemic Toxin, by T. M. Oksman.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci.,  
Vol 199, No 4, August 1971, pp 980-983.  
CB

Mar 72

On the Algebra of Hermitic Matrices, by  
K. G. Agababyan, 5 pp.  
RUSSIAN, per. Boklady Akademii Nauk SSSR,  
Matematika, Moscow, Vol 199, No 5, 1971,  
pp 991-993.  
JPM 54506

Nov 71.

Experimental Investigation of the  
Mach-Number Distribution in a Com-  
pressed Layer in Front of a Cylinder,  
by E. V. Lysenko.

RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 5, August 1971, pp 1029-1031.

Am Inst of Phys

Vol 16, No 8, February 1972

Mar 72

Mixed Problem of the Theory of Elasticity  
for a Plane With Cuts Located Along the  
Real Axis, by E. I. Zverovich.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 5, August 1971, pp 1032-1035.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Investigation of the Thermal Properties  
of Lunar Soil and of its Terrestrial  
Analogs, by A. P. Dmitriev.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 5, August 1971, pp 1036-1037.  
Am Inst of Phys  
Vol 16, No 8, February 1971

Mar 72

Apparatus TOR-1 for the Examination of  
Mechanical and Physical Properties of  
Lunar Soil, by M. P. Drozhzhina.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 5, August 1971, pp 1038-1040.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Study of the Narrow Structure of Absorption Spectra in Atmospheric Gases by High-Speed Laser Spectrometry, by V. E. Zuev.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 5, August 1971, pp 1041-1043.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Operating Characteristics of Superconducting Solenoids in the Temperature Range 1.6-5.2° K, by G. G. Lazarev.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 5, August 1971, pp 1044-1047.  
Am Inst of Phys.  
Vol 16, No 8, February 1972

Mar 72

Investigating Current-Optical Effects  
in Cosmic Media, by N. V. Fomin.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 5, August 1971, pp 1048-1051.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Anisotropy of the Plane Galvanomagnetic Effect in Monocrystalline Nickel Films,  
by E. F. Kuritsyna.

RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 5, August 1971, pp 1052-1054.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Defects in the Crystal Lattice of  
Nickel Ferrites, by V. I. Arkharov.  
RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 5, August 1971,  
pp 1088-1090.

GB

Mar 72

Mechanism of the Oxidation of Carbon Monoxide on Metal Oxides, by

G. K. Boreskov.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Chem., Vol 199, No 5, August 1971,  
pp 1091-1093.

CB

Mar 72

Thermodynamic Characteristics of Higher  
Thallium Sulfides and Certain Regulari-  
ties in a Series of Monochalcogenides of  
the 111B Subgroups, by V. P. Vasil'ev.  
RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 5, August 1971,  
pp 1094-1097.  
CB

Mar 72

Calculation of Permutable Factors in  
the Theoretical Group Classification  
of Polyelectron Polyatomic Systems,  
by A. N. Men'.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 5, August 1971,  
pp 1101-1103.

CB

Mar '72

Calculation of the Electron Structure  
and Dipole Moment of Galycene by the  
CNDO/2 Method, by V. I. Minkin.  
RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 5, August 1971,  
pp 1104-1106.  
CB

Mar 72

Determination of Surface Concentrations  
in CaO - Al<sub>2</sub>O<sub>3</sub> - SiO<sub>2</sub> Melts, by  
A. A. Ofitserov.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 5, August 1971,  
pp 1107-1109.

CB

Mar 72

Spin-Spin Coupling Constants of Aziridine  
Ring Protons. Three-Membered Rings. II.,  
by A. A. Fomichev.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 5, August 1971,  
pp 1110-1113.

CB

Mar 72

Concentration and Temperature Curves  
for the Contact Interactions of  
Particles in Polymer Solutions, by  
E. D. Yakhnin.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 5, August 1971,  
pp 1114-1117.

CB

Mar 72

A Propellant Motor as a Homogeneous  
Chemical Reactor, by Yu. A. Gostintsev,  
RUSSIAN, per, Dok Ak Nauk SSSR,  
Chem Tash., Vol 199, No 5, 1971,  
pp 1118-1121.

CB

June 72

Maximum Combustion Rates of Graphite  
and Other Carbonaceous Materials at  
High Temperatures, by I. A. Yavorskii.  
RUSSIAN, per, Dok Ak Nauk SSSR,  
Chim. Tech., Vol 199, No 5, 1971,  
pp 1122-1125.  
GB

June 72

Quantitative Morphometry of Cytoplasmic  
Membranes as Exemplified in the Lamellar  
Structures of Chloroplasts, by

S. V. Tageeva.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci.,  
Vol 199, No 5, August 1971, pp 1171-1173.

CB

Mar 72

An Investigation of the Limiting Stage  
in the Mechanism of Permeation of  
Hydrogen Ions Through Bilayer Lipid  
Membranes, by L. I. Boguslavskii.  
RUSSIAN, per, Dok Ak Nauk SSSR. Biophys.,  
Vol 199, No 5, August 1971,  
pp 1174-1177.

CB

July 72

Crystallization (Polymerization) of a  
Complex of Tryptophanyl-tRNA-  
Synthetase With Tryptophan, by  
L. L. Kiselev.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biophys.,  
Vol 199, No 5, August 1971,  
pp 1178-1180.  
CB

July 72

Phosphorescence and Delayed Fluorescence  
of Protochlorophyll Pigments, by

A. A. Krasnovskii.

RUSSIAN, per, Dok Ak Nauk SSSR, Biophys.,  
Vol 199, No 5, August 1971,  
pp 1181-1184.

CB

July 72

Kinetics and Mechanism of Acid-Induced  
Conformational Changes in DNA, by  
T. I. Smol'yaninova.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biophys.,  
Vol 199, No 5, August 1971, pp 1185-1188.  
CB

July 72

Ultraviolet Luminescence of Mitochondria  
in Different Functional States, by  
V. I. Srokovoi.

RUSSIAN, per, Dok Ak Nauk SSSR, Biophys.,  
Vol 199, No 5, August 1971, pp 1189-1191.  
CB

July 72

Functional Modelling of Biochemical  
Systems, by G. V. Voronin.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem.,  
Vol 199, No 5, August 1971, pp 1192-1195.  
CB

Mar 72

Lipoamino-Acid Compounds of Plastids  
During Light-Induced Formation of  
Ultrastructures of Corn Chloroplasts,  
by M. I. Molchanov.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biochem.,  
Vol 199, No 5, August 1971, pp 1196-1199.  
CB

Mar 72

Requirement of Aerobic Cells for  
Hydrogen Peroxide, by A. A. Gurevich.  
RUSSIAN, per, Dok Ak Nauk SSSR. Bot Sci.,  
Vol 199, No 5, August 1971, pp 1200-1203.  
CB

June 72

Polymeric Iron Orthophosphate, A New  
Compound in Various Fungi, by  
L. M. Okorokov.  
RUSSIAN, per, Dok Ak Nauk SSSR, Bot Sci.,  
Vol 199, No 5, August 1971, pp 1204-1205.  
CB

June 72

Possibility of Using Transitional  
Processes to Increase the Efficiency  
of Photosynthesis in the Unicellular  
Alga Chlorella, by F. Ya. Sid'ko.  
RUSSIAN, per, Dok Ak Nauk SSSR. Bot Sci.,  
Vol 199, No 5, August 1971, pp 1206-1208.  
OB

June 72

Certain Dynamic Characteristics of the  
PD-Receptor Organ in the Grayfish, by  
V. S. Burdanov.  
RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci.,  
Vol 199, No 5, August 1971, pp 1209-1211.  
CB

Mar 72

Changes in the Content of Certain Products  
of Glycolysis in the Myocardium of the  
Frog in Various Phases of the Cardiac  
Cycle, by E. G. Krause.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Sci.,  
Vol 199, No 5, August 1971, pp 1212-1215.  
GB

Mar 72

Entropy and Self-Oscillations in Nonlinear  
Systems, by V. V. Petrov.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 6, August 1971, pp 1260-1261.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Analysis of the Explosion of Finite  
Cylindrical Charges, by L. V. Shurshalov.  
RUSSIAN, per, Dok Nauk SSSR, Sov Phys,  
Vol 199, No 6, August 1971, pp 1262-1264.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Local Relations of Kinematic Testing  
Functions for Rheological Models of the  
Theory of Heredity, by A. N. Suprun.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 6, August 1971, pp 1265-1267.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Investigation of the Friction and  
Abrasion Properties of Lunar Soil, by  
A. S. Buyalo.

RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 6, August 1971, pp 1268-1270.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Use of a Q-Meter to Study the Electrical  
Properties of Lunar Soil and of its  
Analogs, by A. R. Golovkin.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 6, August 1971, pp 1271-1273.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Preliminary Results From an Investigation  
of the Mechanical Properties of the Lunar  
Regolith, by V. I. Druzhininskaya.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 6, August 1971, pp 1274-1277.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Using the Noctilucent-Layer Effect for  
Purposes of Independent Navigation and  
Attitude Control of Piloted Spacecraft,  
by K. Ya. Kondrat'ev.

RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 6, August 1971, pp 1278-1281.

Am Inst of Phys  
Vol 16, No 8, February 1972

NASA TTFS-14, 110 8 pp

Mar 72

Spectroscopic Properties and Emission  
of Nd<sup>3+</sup> IN ZnO<sub>2</sub> and HfO<sub>2</sub> Crystals, by  
V. I. Aleksandrov.

RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 6, August 1971, pp 1282-1283.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Peculiarities of the Dynamics of the  
Radiation From a Ruby Laser Having a Com-  
plex Resonator Which Includes an Optical  
Delay Line, by L. S. Korriienko.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 6, August 1971, pp 1284-1285.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Low-Frequency Oscillations in a Weakly  
Ionized Current-Free Plasma in a Longi-  
tudinal Magnetic Field, by B. N. Shvilkin.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 6, August 1971, pp 1286-1288.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Effect of a Magnetic Field on the Plastic  
Deformation of Iron, by D. S. Kamenetskaya.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys.,  
Vol 199, No 6, August 1971, pp 1289-1291.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Effect of Relaxation Phenomena on Frequency  
Dependence of Durability of Plastics, by  
S. B. Ratner.

RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 6, August 1971, pp 1292-1295.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

Effect of the Nature of the Oxidizer in  
an Explosive Compound on the Combustion  
Rate, by A. E. Fogel'zang.  
RUSSIAN, per, Dok Ak Nauk SSSR, Sov Phys,  
Vol 199, No 6, August 1971, pp 1296-1299.  
Am Inst of Phys  
Vol 16, No 8, February 1972

Mar 72

EPR Investigation of Electron Transfer  
on the Surface of Activated Carbon,  
by A. D. Grishina.  
RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 6, August 1971,  
pp 1339-1342.  
CB

Mar 72

Degree of Dispersion of Emulsions as  
a Factor Affecting the Rate of Initia-  
tion of Radical Reactions, by  
S. S. Ivanchev.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 6, August 1971,  
pp 1343-1346.

CB

Mar 72

Chemical Shifts of Water in Semi-permeable Membranes of Cellulose Acetate, by V. V. Mank.  
RUSSIAN, per, Dok Ak Nauk SSSR, Phys Chem., Vol 199, No 6, August 1971,  
pp 1347-1349.

CB

Mar 72

Disorder and Aging of the Solid Phase  
During Crystallization of BaSO<sub>4</sub>, by  
I. V. Melikhov.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys  
Chem., Vol 199, No 6, August 1971,  
pp 1350-1352.

CB

Mar 72